ARLECDON & FRIZINGTON

URBAN DISTRICT.

Twenty-first

Annual Report

OF

JAMES I. LACE,

MEDICAL OFFICER OF HEALTH,

FOR

1904.

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THIRLMERE HOUSE,
FRIZINGTON, via Carnforth,
24th January, 1905.

MR. CHAIRMAN AND GENTLEMEN,

I beg to submit my Twenty-first Annual Report, viz.: that for 1904. In dealing with the Vital Statistics, various important Tables are appended, in addition to the Special Tables required by the Local Government Board.

The Population of the District is estimated at 5,200, up to the middle of 1904, a decrease of 90 as compared with the assumed Population of last year. Arlecdon Ward (including Whillimoor), has a Population of 1,700; Frizington 3,500. This shows an increase in Arlecdon of 70, and a decrease in Frizington of 160.

The birth of 79 boys and 69 girls has been registered in the District during 1904—46 in Arlecdon, and 102 in Frizington, being four less than that of last year, and the lowest number recorded (except in 1898, when there were 144) since the District has had the advantages of local self-government. The birth-rate for the year was 28·46—27·05 in Arlecdon, and 29·14 in Frizington.

The total number of deaths recorded in the District during the year 1904 amounted to 81—42 males, and 39 females; 24 being in Arlecdon Ward, and 57 in Frizington. This number represents an increase of one upon the year 1903. The rate of mortality for the year was equivalent to 15·57 per 1,000 living, on an assumed Population of 5,200 to the middle of the year, being ·43 higher than that in 1903.

The Death Rates in the District for the quarterly periods were :—

1st Quarter	...	9·23	...	12 deaths
2nd ,,	...	10.76	...	14 ,,
3rd ,,	...	15·38	...	20 ,,
4th ,,	...	26·15	...	34 ,,

It will be noted in the above table that the mortality for the first and second quarters of the year was very low, and for the third and fourth exceedingly high. The deaths among children under one year (including premature births) numbered 25, being three more than that of the previous year. Measured by the proportion of deaths to births registered, the Infant Mortality in the District was equal to 136 per 1,000. The death rate of children under five years of age to one hundred deaths at all ages for 1904, was 49·13.

The senile deaths, or deaths of persons aged 65 and upwards, numbered 14, which represents a percentage of 17·28.

The number of deaths ascribed to the nine principal Zymotic or preventable diseases during the year was ten, only one of which had reached the fifth anniversary of its birth.

During the year 22 cases of Infectious Disease were notified under the Infectious Disease Notification Act, of which 11 were cases of Scarlet Fever, 9 of Erysipelas, and two of Diphtheria. Scarlet Fever first appeared in the month of April ; one in Mill Street, and the other at Parkside. Four other cases were notified in October ; three at Harris Villa in one house, and one at Winder Station. These cases were treated in their respective homes; and the disease did not spread. The origin of the infection was not traceable in any of the cases. During the months of November and December, five cases were notified ; four from Redgate, a small insanitary cottage standing alone in a remote part of the sparsely populated Township of Whillimoor. The other case was from Frizington Road (patient removed to the Infectious Disease

Hospital on New Year's Day). The source of infection in these five cases was apparently from the village of Pica, in the adjoining Rural District, where the disease was prevalent. The whole of the Erysipelatous cases were of the simple cutaneous variety. Meteorological conditions and a constitutional pre-disposition appear to have been the pre-disposing causes. One of the patients, in receipt of Parish Relief, was removed to the Joint Infectious Disease Hospital at Galemire. A fatal case of Diphtheria was registered in Frizington in the month of October. No sanitary defects in the house of the child or its surroundings were discovered.

At the end of the third quarter of the year, an extensive epidemic of Measles occurred at Arlecdon. The Council's Schools at this place were closed on the 4th October, and re-opened on the 24th of the same month, when it was found that the disease had considerably abated. The epidemic had now extended to Frizington, and the Infant Department of the Council's Schools was closed on 2nd of December, and remained to the Christmas vacation. During the Holidays the disease spread rapidly to the lower parts of Frizington, and at the end of December a large number of cases were still under treatment. The disease proved fatal to five children—three in Arlecdon and two in Frizington, all under five years of age. Whooping-Cough first attracted attention in the month of May, in Frizington, but did not give rise to any remarkable prevalence till the latter part of July, and spread to Arlecdon during the fourth quarter of the year. Four deaths are recorded as having been due to this disease—three in Frizington, and one at Arlecdon. Two deaths were due to Cancer in Frizington. At present the only thing that can be done is to record the facts. The number of deaths due to Phthisis, or Consumption, was 13, equal to 2·50 per 1,000 of the population.

I have nothing to add to my previous Reports with respect to the adequacy and fitness of house accommodation, which appears to be ample for the population, as there are many dwelling houses

without tenants. The District is well sewered on the principle of the water-carriage system, and the sewage is disposed of by means of Broad Irrigation. It is not necessary to recapitulate what I have said in many previous Annual Reports with regard to our water supply. The water is pure, abundant, and soft, and every care is being exercised to prevent contamination or pollution at its source. All places over which the Council have supervision have been duly and systematically inspected. Under the Sale of Food and Drugs Act four samples of Milk, one of Whisky, and one of Gin were taken by the Police and submitted to the County Analyst, who certified that they were all genuine.

I append the Annual Report of your Sanitary Inspector, which gives the particulars of the work done by him during the year.

I am, Gentlemen,

Your obedient servant,

JAMES I. LACE,

Medical Officer of Health.

THE ANNUAL REPORT
OF THE
MEDICAL OFFICER OF HEALTH
OF
FACTORIES AND WORKSHOPS, FOR THE YEAR 1904.

Mr. Chairman and Gentlemen,

I have the honour to submit to you the following Annual Report upon the work connected with the Factory and Workshops Act of 1901, in the Urban Council's District of Arlecdon and Frizington, during the year 1904; and to send a copy of the same to the Secretary of State, Whitehall, London.

The work of local supervision of these premises is now transferred to the Council, and is required to be carried out by their Officers. The new requirements that every District Council must keep a register of Factories and Workshops, seems to have been fairly well carried out in this District.

The total number of Factories and Workshops on the register was 33—6 of the former, and 27 of the latter—all of which are duly entered in the register kept for the purpose. Accompanied by your Inspector, a systematic inspection of these Factories and Workshops was made, and other independent inquiries instituted in regard to the sanitation of these places.

There are only two Bake-houses in the District, and as they have no mechanical power, they are Workshops, and as such must comply with the ordinary Workshops requirements as to cleanliness, air-space, and ventilation. There are also certain special provisions for Bakehouses, and it is the duty of the District Council to enforce these in regard to closets, limewashing, or painting with scrubbing, and sleeping places. The total number of visits of inspection made during the year by myself was 45, and by the Sanitary Inspector 40. No sanitary defects were met with.

I am, Gentlemen,

Your obedient servant,

J. I. LACE,

Medical Officer of Health.

Council Chambers,
Main Street, Frizington,
January, *1905*.

Mr. Chairman and Gentlemen,

I have pleasure to lay before you the Sanitary Inspector's Twenty-first Annual Report, which gives you a summary of the sanitary work done under your authority for the year ending December, 1904.

During the year 1904 the Sanitary Authority have erected at Low Arlecdon duplicate settling tanks, with fillers combined, in order to deal more efficiently with the sewerage matter from this portion of the District.

Two hundred yards new 6″ diameter sewerage mains have been laid down, and duplicate settling tanks erected on a plot of ground being No. 346 on Ordnance Map, and extending from Tile Kiln Cottage towards Skelsceugh Farm, and thus giving an additional 5½ acres of land for Irrigation purposes.

Four hundred yards of new 2½″ diameter water mains have been laid down, extending from the lower portion of Mill Street to Spring Field Cottage.

New 3″ diameter water mains have been laid down, extending from the Trunk main through Rydal Street to Wilson's Terrace and Lindow Street, and all necessary connections put in.

Summary showing particulars of work done under the Sanitary Authority for the year ending December, 1904 :—

Inspection of Dwelling Houses	1307
,, ,, Factories	9
,, ,, Workshops	31
,, ,, Milk Shops, Cow Sheds, and Dairies	26
Nuisances observed at Dwellings :—	
Notices issued and Nuisances abated ...	61
Houses Fumigated	13
Board Schools, Arlecdon & Frizington, Fumigated	2
Water Services renewed	43
New Water Closets erected	4

No notices have been issued under the Factories and Workshops Act ; Milk Shops, Cowsheds, and Dairies Order.

I am, Gentleman,

Your obedient servant,

GEO. ASHBRIDGE, A.S.I.,

Sanitary Inspector.

Table I.—Births.

The total number of Births, Male and Female, Legitimate and Illegitimate, and Birth-rate per 1,000 of the population of the District, and the percentage of Illegitimate to the total Births.

DISTRICTS.	Estimated Population to the Middle of 1904.	BIRTHS.					Rate per 1,000 Population.	Percentage of Illegitimate.
		Legitimate.		Illegitimate		1904.		
		Male.	Female.	Male.	Female.	Total.	1904.	1904.
Whillimoor Arlecdon	1,700	23	20	2	1	46	27·05	6·50
Frizington	3,500	50	46	4	2	102	29·14	6·12
The Entire District	5,200	73	66	6	3	148	28·46	11·11

Table II.—Deaths in the District from January 1st to December 31st, 1904.

Deaths under 1 year of age	25	40 under 5 years.	
,, of 1 ,, and under 5 years	15		
,, ,, 5 ,, ,, 15 ,,	3	41 over 5 years.	
,, ,, 15 ,, ,, 25 ,,	2		
,, ,, 25 ,, ,, 65 ,,	22		
,, ,, 65 ,, and upwards	14		
Total ...		81	

Table III.—Deaths from January 1st to December 31st, 1904.

Extent, Population, and Mortality.	Township of Arlecdon and Whillimoor.	Township of Frizington.	The Entire District.
Area in Acres	1,906·845 1,569·604	2,079·891	5,556·340
Population, Census 1901 ...	1,632	3,709	5,341
,, estimated to the middle of 1904	1,700	3,500	5,200
Deaths from the nine chief Zymotic diseases	4	6	10
Deaths from other causes ...	20	51	71
Total Deaths for the year ...	24	57	81
Death-rate from the nine chief Zymotic diseases per 1,000	2·35	1·71	1.92
Death-rate from all other causes per 1,000	11·76	14·57	13·65
General Death-rate per 1,000 ...	14·11	16·28	15·57

Table IV.—Deaths from the Nine Chief Zymotic Diseases.

Smallpox	0	
Scarlatina	0	
Diphtheria	1	
Membranous Croup	0	
Typhus Fever	0	= 10
Enteric or Typhoid Fever	0	
Measles	5	
Whooping Cough	4	
Diarrhœa	0	

Table V.—Summary.

	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904
Population	5,050	5,050	5,050	5,050	5,600	6,000	5,639	5,400	5,200	5,650	5,750	5,750	5,900	5,900	5,950	5,860	5,341	5,341	5,290	5,200
Total Births ...	208	194	172	174	192	235	204	213	206	207	195	161	171	144	184	170	176	171	172	148
Annual Birth-rate per 1,000 population	41·18	38·41	34·05	34·45	34·28	39·16	36·17	39·44	39·61	36·63	33·91	28·00	29.00	24·40	30·92	29.01	32·95	32·01	32·57	28·46
Total Deaths ...	82	80	82	78	95	112	77	75	91	68	90	72	88	83	82	(103) 102	66	62	80	81
Annual Mortality per 1,000 population	16·23	15·84	16·23	15·44	16·29	18·66	13·65	13·88	17·50	12·03	15.65	12.52	14·91	14 06	13·78	17·40	12·35	11·60	15·14	15·57

Table VI.—For Whole District.

Year.	Population estimated to Middle of each Year.	Births.		Total Deaths Registered in the District.				Total Deaths in Public Iastitutions in the District.	Deaths of Non-residents regist'd in Public Institutions in District.	Deaths of Residents registered in Public Institutions beyond Dist'ct	Nett Deaths at all ages belonging to the District.	
				Under 1 Year of Age.		At all Ages.						
		No.	Rate *	No.	Rate per 1,000 Births regist'd.	No.	Rate *				No.	Rate *
1.	2.	3.	4.	5.	6.	7.	8	9.	10.	11.	12.	13.
1894	5,650	207	36·63	25	120	68	12 03	...	.....	...	.....	...
1895	5,750	195	33·91	18	92	90	15·65	...	.....	...	.....	...
1896	5,750	161	28·00	23	142	72	12·52	...	.....	...	.....	...
1897	5,900	171	29·00	24	140	88	14·91	...	.....	...	.....	...
1898	5,900	144	24·40	18	125	83	14·06	...	.....	...	.....	...
1899	5,950	184	30 92	24	130	82	13 78	...	.....	...	.....	...
1900	5,860	170	29·01	22	129	103	17·57	...	.....	...	.....	...
1901	5,341	176	32·95	22	125	66	12·35	...	.....	...	.....	...
1902	5,341	171	32·01	11	64	62	11·60	...	.....	...	.....	...
1903	5,290	172	32·57	22	127	80	14·74	...	.....	...	.....	...
Av'rages for years 1894-1903	5,673 2	175·1	30 83	20·90	119·40	79·20	13·92					
1904	5,200	148	28·46	25	168	81	15·57	...	.....	...	81	15.57

*—Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

NOTE.—The deaths to be included in Column 7 of this Table are the whole of those registered during the year as having actually occurred within the district or division. The deaths to be included in Column 12 are the number in Column 7, corrected by the substraction of the number in Column 10 and the addition of the number in Column 11.

By the term "Non-Residents" is meant persons brought into the district on account of sickness or infirmity, and dying in public institutions there; and by the term "Residents" is meant persons who have been taken out of the district on account of sickness or infirmity, and have died in public institutions elsewhere.

The "Public Institutions" to be taken into account for the purposes of these Tables are those in which persons are habitually received on account of sickness or infirmity, such as hospitals, workhouses, and lunatic asylums.

Institutions outside the district receiving sick and infirm persons from the district: Whitehaven Union Workhouse, Whitehaven Infirmary, Garlands Lunatic Asylum, Carlisle; also Galemire Fever or Infectious Disease Hospital, near Cleator Moor.

Area of District in Acres (exclusive of area covered by water) ...	5,556·340
Total Population at all ages, at Census of 1901	5,341
Number of Inhabited Houses ,, ,, ...	1,060
Average number of persons per house ,, ...	5

Table VII.

Year.	Population estimated to middle of each year.	Births registered	Deaths at all ages	Deaths under One Year.
1894 ...	5,650	207	68	25
1895 ...	5,750	195	90	18
1896 ...	5,750	161	72	23
1897 ...	5,900	171	88	24
1898 ...	5,900	144	83	18
1899 ...	5,950	184	82	24
1900 ...	5,860	170	103	22
1901 ...	5,341	176	66	22
1902 ...	5,341	171	62	11
1903 ...	5,290	172	80	22
Averages of Years 1894 to 1903 ...	5,675·2	175·2	79·2	20·9
1904 ...	5,200	148	81	25

Table VIII.—Cases of Infectious Disease notified during the Year 1904.

Notifiable Disease.	Cases notified in Whole District.						
	At all Ages.	At Ages.—Years.					
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwards
Small-pox	...	...	...	...	...	...	...
Cholera	...	...	...	...	...	...	...
Diphtheria	2	...	...	2	...	...	...
Membranous Croup	...	...	...	...	...	..	...
Erysipelas	9	...	1	1	2	3	2
Scarlet Fever ...	11	...	5	5	1	...	...
Typhus Fever ...	...	...	...	...	...	...	...
Enteric Fever ...	...	...	...	...	...	...	...
Relapsing Fever ...	...	...	...	...	...	...	...
Continued Fever ...	...	...	...	...	...	...	...
Puerperal Fever ...	...	...	..	...	...	...	...
Plague	...	...	...	...	...	...	...
Totals ...	22	...	6	8	3	3	2

One case of Erysipelas was removed to the Joint Fever Hospital, at Galemire.
The Notification of Infectious Disease is compulsory in the District, and has been since May 19th, 1890; Galemire Joint Fever Hospital, situated in the Whitehaven Union Rural Council's District, near Cleator Moor.

Table IX.—Causes of and Ages at Death during Year 1904.

Causes of Death.	Deaths in whole District at subjoined Ages.							
	All Ages.	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards	Deaths in Public Institutions.
Smallpox	...	...	...	...	...	...	...	...
Measles	5	2	3	...	...	...	...	...
Scarlet Fever	...	...	...	...	...	...	...	...
Whooping-cough ...	4	1	3	...	...	...	...	...
Diphtheria & Membranous Croup	1	..	...	1	...	...	...	...
Croup	...	...	...	...	...	...	...	...
Fever { Typhus ...	...	...	...	...	...	...	...	...
Fever { Enteric ...	...	...	...	...	...	...	...	...
Fever { Other continued ...	...	...	...	...	...	...	...	...
Epidemic Influenza ...	...	...	...	...	...	...	...	...
Cholera	...	...	...	...	...	...	...	...
Plague	...	...	...	...	...	...	...	...
Diarrhœa	...	...	...	...	...	...	...	...
Enteritis	5	3	2	...	...	...	...	...
Puerperal Fever ...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	...
Other Septic Diseases	...	...	...	...	...	...	...	...
Phthisis	13	...	1	1	2	9	...	...
Other Tubercular Diseases	3	1	1	...	...	1	...	...
Cancer, Malignant Disease	2	...	...	...	...	1	1	...
Bronchitis	7	4	3	...	...	...	...	...
Pneumonia	7	5	...	...	...	...	2	...
Pleurisy	...	...	...	...	...	...	...	...
Other Diseases of Respiratory Organs ...	...	...	...	...	...	...	...	...
Alcoholism } Cirrhosis of Liver } ...	...	...	...	...	...	...	...	...
Venereal Diseases ...	...	...	...	...	...	...	...	...
Premature Birth ...	3	3	...	...	...	...	...	...
Diseases and Accidents of Parturition ...	...	...	...	...	...	...	...	...
Heart Diseases ...	14	1	...	1	...	6	6	...
Accidents	1	...	...	...	...	1	...	...
Suicides	1	...	...	...	...	1	...	...
All other causes ...	15	5	2	...	...	3	5	...
All causes ...	81	25	15	3	2	22	14	...